

Proposal Full View

Applicant Information

Organization Name *

Tax ID **956002277**

Proposal Name Sunset Gap Seawater Intrusion Assessment *

Proposal Objective The construction and installation of four multi-depth monitoring wells in the Sunset Gap on the Naval Weapons Station Seal Beach. This project will identify the direction and rate of movement of saline groundwater, determine the salinity concentration in specific aquifers, provide a baseline from which future salinity changes can be measured, and provide data needed to evaluate the feasibility of seawater intrusion control alternatives. Seawater intrusion negatively affects groundwater quality and may reduce the availability of local groundwater supplies. This project is necessary to monitor seawater intrusion and collect data needed to assist in future seawater management control. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>	
Local Contribution	<input type="text" value="\$794,970.00"/>	
Federal Contribution	<input type="text" value="\$0.00"/>	
Inkind Contribution	<input type="text" value="\$0.00"/>	
Amount Requested	<input type="text" value="\$250,000.00"/>	*
Total Project Cost	<input type="text" value="\$1,044,970.00"/>	*

Geographic Information

Latitude *	DD(+/-)	<input type="text" value="33"/>	MM	<input type="text" value="44"/>	SS	<input type="text" value="59"/>
Longitude *	DD(+/-)	<input type="text" value="118"/>	MM	<input type="text" value="5"/>	SS	<input type="text" value="18"/>
Longitude/Latitude Clarification	Location	The Naval Weapons Station Seal Beach				
County	Orange *					
Ground Water Basin	Coastal Plain Of Orange County					
Hydrologic Region	South Coast					
Watershed	Lower Santa Ana River					

Legislative Information

Assembly District

67th Assembly District *

Senate District

35th Senate District *

US Congressional District

District 46 (CA) *

Project Information

Project Name

Sunset Gap Seawater Intrus

Implementing Organization	Orange County Water District
Secondary Implementing Organization	
Proposed Start Date	4/30/2013
Proposed End Date	1/31/2015
Project Scope	This assessment will construct four nested monitoring wells.
Project Description	Four multi-depth monitoring wells are proposed in the Sunset Gap on NWSSB. The objectives of these wells are as follows: Identify the direction and rate of movement of saline groundwater; determine the salinity concentration in specific aquifers; provide a baseline from which future salinity changes can be measured; provide data needed to evaluate the feasibility of seawater intrusion control alternatives. The wells will be constructed of five 4-inch diameter PVC casings installed in a single borehole drilled using reverse rotary equipment. Each casing will have a 20-foot long screen installed to monitor water levels and quality at a specific depth.
Project Objective	The purpose of the Sunset Gap Seawater Intrusion Project is to develop a better understanding of the lateral and vertical extent of seawater intrusion in the Sunset Gap. This will provide the foundation for informed management decisions regarding controlling seawater intrusion and protection of water quality.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
	Groundwater		

Primary	Management-Monitoring wells installed	0	Seawater Intrusion
---------	---------------------------------------	---	--------------------

Project Objective

Budget

Other Contribution	0
Local Contribution	794970
Federal Contribution	0
Inkind Contribution	0
Amount Requested	250000
Total Project Cost	1044970

Geographic Information

Latitude DD(+/-) 33 MM 46 SS 55

Longitude DD(+/-) -118 MM 7 SS 5

Longitude/Latitude Clarification

Location

The Naval Weapons

County Orange Ground Water Basin Coastal Plain Of Orange County Hydrologic Region South Coast WaterShed Lower Santa Ana River

Legislative Information

Assembly District	67th Assembly District
Senate District	35th Senate District
US Congressional District	District 46 (CA)

Section : Applicant Information and Question's Tab

APPLICANT INFORMATION AND QUESTION'S TAB

Q1. Applicant Information

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Orange County Water District 18700 Ward Street Fountain Valley, CA 92708

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

The Sunset Gap Seawater Intrusion Assessment project will identify the direction and rate of movement of saline groundwater, determine the salinity concentration in specific aquifers, provide a baseline from which future salinity changes can be measured, and provide data needed to evaluate the feasibility of seawater intrusion control alternatives. Seawater intrusion negatively affects groundwater quality and may reduce the availability of local groundwater supplies. This project is necessary to monitor seawater intrusion and collect data needed to assist in future seawater management control.

Four multi-depth monitoring wells are proposed in the Sunset Gap on NWSSB. The objectives of these wells are as follows: *Identify the direction and rate of movement of saline groundwater *Determine the salinity concentration in specific aquifers *Provide a baseline from which future salinity changes can be measured *Provide data needed to evaluate the feasibility of seawater intrusion control alternatives. Monitoring and preventing the encroachment of seawater into fresh groundwater zones along coastal Orange County is a major basin management issue. Seawater encroachment also represents a key factor in determining the basin operating range in terms of the maximum accumulated overdraft. OCWD conducts a comprehensive monitoring program of the groundwater basin and surface water supplies in the watershed to properly manage water supplies and to safeguard the basin's water quality. By identifying the direction and rate of movement of saline groundwater, determining the salinity concentration in specific aquifers, providing a baseline from which future salinity changes can be measured, and providing data needed to evaluate the feasibility of seawater intrusion control alternatives, the Sunset Gap Seawater Intrusion Assessment project supports the groundwater quality objectives of OCWD's critical basin monitoring programs outlined in Section 3 of OCWD's 2009 Groundwater Management Plan (GWMP) and the Water Quality Management goals and objectives outlined in Section 5 of the GWMP.

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Michael R. Markus, P.E., D.WRE General Manager Orange County Water District 18700 Ward Street, Fountain Valley, CA 92708 tel:(714) 378-3305 email: mmarkus@ocwd.com

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

David L. Mark, R.G., C.H.G. Principal Hydrogeologist, Orange County Water District Orange County Water District 18700 Ward Street, Fountain Valley, CA 92708 tel: (714) 378-3337 email: dmark@ocwd.com

Q5. Additional Information:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) ☐ Northern Region
- 2) ☐ North Central Region
- 3) ☐ South Central Region
- 4) ☒ Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

The Groundwater Management Plan 2009 Update provides information on District operations, lists projects completed since publication of the 2004 report, and discusses plans for future projects and operations. The updated plan was prepared and adopted on July 15, 2009 in accordance with procedures stipulated by A.B. 3030 and Section 10750 et seq. of the California Water Code.

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

Orange County Water District Act (Stats. 1933, Chap. 924) OCWD Groundwater Management Plan Update (Adopted 2009) Santa Ana Watershed Project Authority (Joint Powers Authority agreement 1975)

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

None

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

OCWD is not an Urban Water Supplier

Q11. Completeness Check:

Have all of the fields in the application been completed?

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

Section : Application Attachments Tab**APPLICATION ATTACHMENTS TAB****Attachment 1. Authorizing Documentation**

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1_LGA12_OCWD_AuthDoc_1of1.PDF

Attachment 2. Eligible Applicant Documentation

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2_LGA12_OCWD_Eligdoc_1of1.pdf

Attachment 3. Status of GWMP

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3_LGA12_OCWD_GWMP_1of1.pdf

Attachment 4. Project Description

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4_LGA12_OCWD_ProjD_1of1.pdf

Attachment 5. Work Plan

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5_LGA12_OCWD_WrkPln_1of1.pdf

Attachment 6. Budget

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6_LGA12_OCWD_Budget_1of1.pdf

Attachment 7. Schedule

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7_LGA12_OCWD_Sched_1of1.pdf

Attachment 8. Quality Assurance

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8_LGA12_OCWD_QA_1of1.pdf

Attachemnt 9. Past Performance

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9_LGA12_OCWD_PERFORM_1of1.pdf

Attachment 10. AB1420 and Water Meter Implementation Compliance

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".
